

# Sustainable development of libraries and the current model for scholarly information and communication

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Open Access Resources: University and Library  
Priorities for Enhancing Scholarly Communication  
Krakow-Zakopane , June 15-17,2011

# Zrównoważony rozwój bibliotek uniwersyteckich w dobie nowego modelu informacji i komunikacji naukowej

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Otwarte zasoby wiedzy – nowe zadania uczelni i bibliotek w rozwoju komunikacji naukowej  
Krakow-Zakopane, 15-17 czerwca 2011

## Outline

- **Why this topic?**
- **Universities and sustainability**
- **What roles could libraries play in implementing sustainability ideas into university curriculum, institutional repositories, and open access publishing?**

# What is scholarly information & communication ?

Process supporting universities' research, teaching, and services in which scholarly information is:

discovered, organized, evaluated, collected, disseminated, preserved, curated, and used

# New elements of scholarly communication

- Digital humanities
- E-Science
- Survey and non-survey data
- Geospatial data
- Institutional data repositories
- Digital scholarly publishing
- Open access content
- Creative Commons

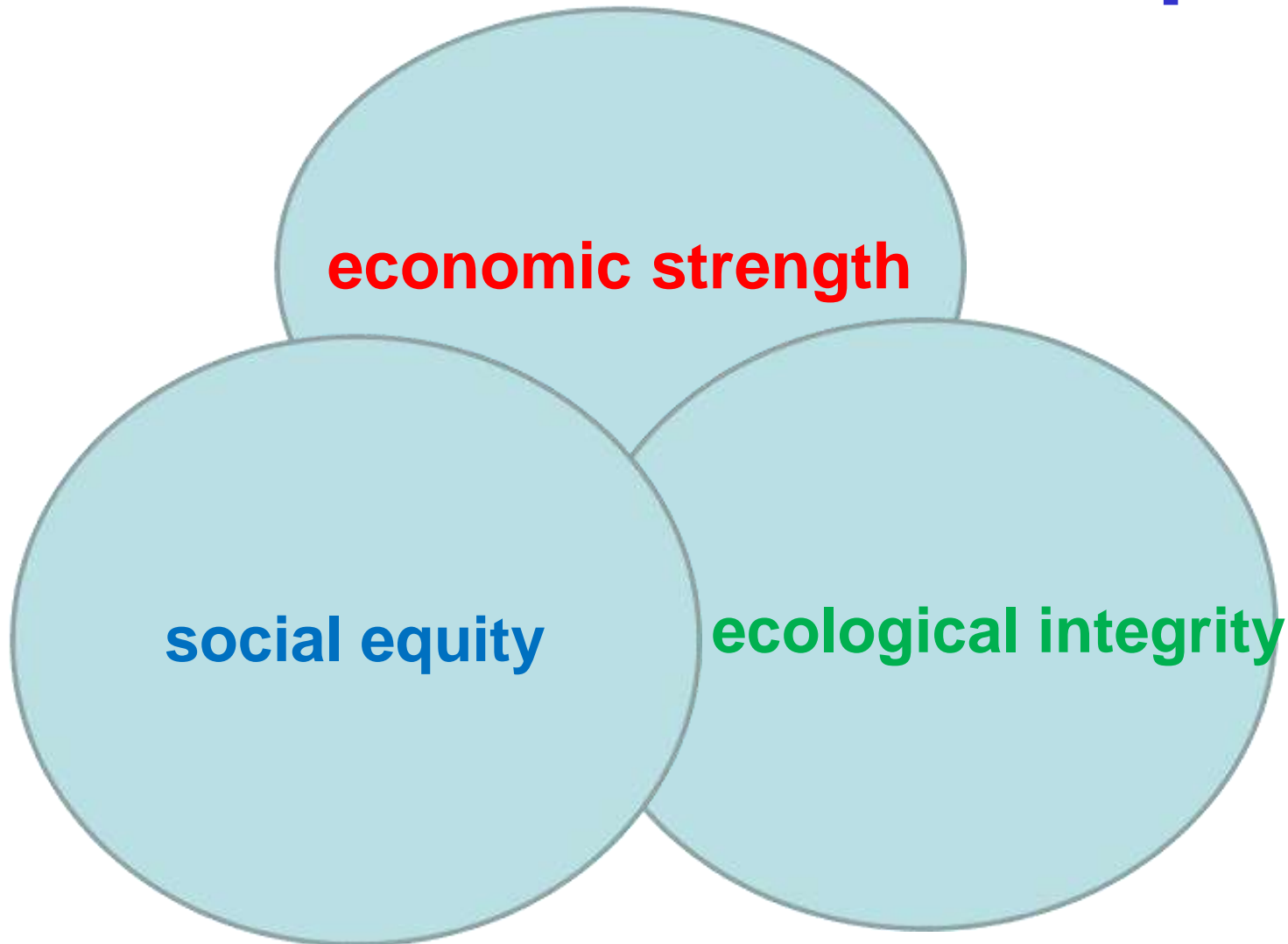
## Changes in scholarly communication

- New Content delivery ([PLoS Hubs model](#))
- Mobile devices for content delivery and payment
- Open Access Journals will stay
- Library and press will collaborate
- Evaluation of scholars' work will change ([Eigenfactor](#))

# **Manfred Max-Neef's "Barefoot Economics" Theory**

Balanced economic growth has limits and after reaching the maximum its sustainable level becomes dangerous due to not respecting an even distribution of economic benefits, social equity, and environmental impact

# Sustainable development







# Sustainable development

Requires balance between:  
social equity,  
economic values, and  
ecological integrity

“that meets the needs of the present without  
compromising the ability of future generations  
to meet their own needs.”

*UN (1987), Report of the World Commission on the Environment and  
Development (WCED), Our Common Future (the Brundtland Report)*

# Sustainability and universities

- University Leaders for a Sustainable Future (USLF) signed [Talloires Declaration](#) in 1990

“... universities bear profound responsibility to increase the awareness, knowledge, technologies and tools to create an environmentally sustainable future.”

The Talloires Declaration

## **Social equity**

- Keep internal transparency and open decision making processes
- Promote values of sustainability
- Increase public awareness
- Secure free access to scholarly information

## **Economic values**

- Oppose corporate sponsorship
- Be aware of principles for responsible investments
- Secure free services

## **Ecological concerns**

- Long-term operational savings by investing in green materials,
- Using green products in daily library operations,
- Promote green and sustainable practices

## **Factors threatening library sustainability**

- Growing cost of developing, maintaining, preserving, and creating print and digital content
- Growing cost of technological and networking infrastructure
- Growing library expenditures for collection (more than 60% since 1993 at the University of California Libraries)
- Growing cost of library operations
- Shrinking university funding for libraries

# Growing libraries' spending per year

- On electricity: average was \$108,832 (college libraries spent \$19,000 more than public libraries)
- On oil and gas heating: average was \$44,280
- On water: average was \$4,988
- On electricity: the average library experienced a 3.23% increase, but for college libraries it was 8%

# Intellectual properties

- Science and Intellectual Property in the Public Interest

<http://sippi.aaas.org/ipissues/categories/?id=1>

- SPARC Author's Addendum

<http://www.arl.org/sparc/author/addendum.html>

- Publisher Copyright Policies & Self-Archiving

<http://www.sherpa.ac.uk/romeo.php>



# Open access content

[Open Data Foundation](#)

[Otwarta Nauka](#)

[Directory of Open Access Journal](#)

# What do faculty need from us?

- Alerts about forthcoming grants
- Information about opportunities from funding organizations
- Help to find potential collaborators
- Facilitate collaborative management of data
- Provide tools for analysis of large aggregations of text and data; and curate and preserve research data
- Help to develop skills in information handling
- Find channels to disseminate and publish their work
- Advice on protecting their intellectual property rights

## **Librarians need to be seen**

- To facilitate and save open access content
- To preserve and curate digital content produced by university community
- To support universities in developing sustainability curriculum and practices
- To organize and archive web resources
- To develop rare and unique collections



**Our Future: are  
we going  
forward without  
our Head?**